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| · | Application No. | Applicant(s) |
| Notice of Allowability | 09/803,718 | NARASIMHAN ET AL. |
| Notice of Allowability | Examiner | Art Unit |
| | Jean A. Gelin | 2681 |
| The MAILING DATE of this communication apper All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313 | (OR REMAINS) CLOSED in this ap or other appropriate communication GHTS. This application is subject to | plication. If not included |
| 1. This communication is responsive to <u>5/9/05</u> . | | |
| 2. The allowed claim(s) is/are <u>claims 1-53 and 55-61, renumb</u> | <u>ered as 1-60</u> . | |
| 3. The drawings filed on <u>09 March 2001</u> are accepted by the | Examiner. | |
| 4. ☐ Acknowledgment is made of a claim for foreign priority una) ☐ All b) ☐ Some* c) ☐ None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority documents have Copies of the certified copies of the priority documents have international Bureau (PCT Rule 17.2(a)). * Certified copies not received: | been received. been received in Application No | |
| Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. | of this communication to file a reply ENT of this application. | complying with the requirements |
| 5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give | tted. Note the attached EXAMINER's reason(s) why the oath or declara | S AMENDMENT or NOTICE OF still on is deficient. |
| 6. CORRECTED DRAWINGS (as "replacement sheets") mus (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the | on's Patent Drawing Review (PTO- Amendment / Comment or in the C | Office action of |
| 7. DEPOSIT OF and/or INFORMATION about the depose attached Examiner's comment regarding REQUIREMENT F | sit of BIOLOGICAL MATERIAL n FOR THE DEPOSIT OF BIOLOGICA | nust be submitted. Note the AL MATERIAL. |
| Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date | 6. ☐ Interview Summary Paper No./Mail Dat B), 7. ☑ Examiner's Amendr | e ´ |
| | | |

DETAILED ACTION

This is in response to the Applicant's amendments and arguments filed on May
 2005 in which claims 1-61 are currently pending.

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Jerry L. Mahurin (Reg. No. 34,661) on July 22, 2005.

3. The application has been amended as follows:

Please cancel claim "54".

Please rewrite claim 53 as follow:

--A method for mobile data communication comprising: transmitting from a base station to mobile stations in a time division access scheme using multiple beams; and switching, over time, a forward link time slot assignment of said time division access scheme of each of a plurality of subscriber units, wherein said switching a forward link time slot assignment comprising: transmitting to said plurality of subscriber units each within a different time slot of said time division access scheme; and varying from transmission frame to transmission frame in a pseudo random sequence the time slot within which transmission is made to said subscribers.--

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Allowable Subject Matter

- 4. After a further search and thorough examination of the present application and in view of the applicant's arguments and Examiner's amendment, claims 1-53 and 55-61, renumbered as 1-60, are found to be in condition of allowance.
- 5. The following is an examiner's statement of reasons for allowance:

As per claims 1-20, the cited prior arts fail to teach the claimed limitations for the reasons set forth in the Applicant's remark filed on 05/09/05 page 16.

As per claims 21-52 the prior art teaches the use of smart or adaptive antennas to transmit beams directed at an individual, beams can be chosen to be as small as possible to provide the desired or necessary power to subscriber, and control the quality of signals.

On the other hand, the Applicant teaches determining a data rate for providing desired communication quality with subscriber units of said combination of subscriber units achievable when said interference diversity gain scheme is implemented; and providing said simultaneous substantially isolated communication links between subscriber units of said combination of subscriber units and said base station and providing therein data communication at an associated one of said determined data rates.

As per claims 53, 55-61, the prior arts of record fail to teach switching, over time, a forward link time slot assignment of said time division access scheme of each of a plurality of subscriber units, wherein said switching a forward link time slot assignment comprising: transmitting to said plurality of subscriber units each within a different time

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slot of said time division access scheme; and varying from transmission frame to transmission frame in a pseudo random sequence the time slot within which transmission is made to said subscribers

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

| Peterson et al. | US 6,072,788 | 06/06/2000 |
|-----------------|--------------|------------|
| Wong et al. | US 6,330,460 | 11/12/2001 |
| Katz | US 6,771,989 | 08/03/2004 |

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jean A Gelin whose telephone number is (571) 272-7842. The examiner can normally be reached on 9:30 AM to 7:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Emmanuel Moise can be reached on (571) 272-3865. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JEAN GELIN PRIMARY EXAMINER

JGelin July 23, 2005

Jean Alland Gelin